

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FB/BM45376	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 00/ 01423	International filing date (day/month/year) 22/02/2000	(Earliest) Priority Date (day/month/year) 24/02/1999
Applicant SMITHKLINE BEECHAM BIOLOGICALS S.A. et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.
☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☒ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☒ furnished subsequently to this Authority in computer readable form.

☒ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☒ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

HAEMOPHILUS ANTIGEN

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawing to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP 00/01423

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C12N15/31 C07K14/285 C07K16/12 A61K31/70 A61K39/102
 A61K39/40 G01N33/50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 C12N C07K A61K G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FLEISCHMANN R. ET AL.: "Haemophilus influenzae Rd section 116; AC U32801; P45114" EBI DATABASE, 1995, XP002144210 the whole document ---	1-13
X	WO 96 33276 A (HUMAN GENOME SCIENCES INC ;UNIV JOHNS HOPKINS (US)) 24 October 1996 (1996-10-24)	1-13
A	see description pp.1-46; p.76.30 ---	14-16
A	WO 97 01638 A (CORTECS INTERNATIONAL LIMITED ;KYD JENNELLE (AU); CRIPPS ALLAN (AU) 16 January 1997 (1997-01-16) the whole document --- -/-	1-13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

4 August 2000

Date of mailing of the international search report

17/08/2000

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 00/01423

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 680 765 A (AMERICAN CYANAMID CO) 8 November 1995 (1995-11-08) the whole document ---	1-13
A	WO 93 19090 A (BARENKAMP STEPHEN J) 30 September 1993 (1993-09-30) the whole document ---	1-13
A	FLEISCHMANN R D ET AL: "WHOLE-GENOME RANDOM SEQUENCING AND ASSEMBLY OF HAEMOPHILUS INFLUENZAE RD" SCIENCE.US.AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, vol. 269, no. 5223, 28 July 1995 (1995-07-28), pages 496-512, XP000517090 ISSN: 0036-8075 cited in the application the whole document -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 00/01423

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9633276 A	24-10-1996	AU 5552396 A	07-11-1996
		CA 2218741 A	24-10-1996
		EP 0821737 A	04-02-1998
		JP 11501520 T	09-02-1999
WO 9701638 A	16-01-1997	AU 708061 B	29-07-1999
		AU 6236396 A	30-01-1997
		CA 2225405 A	16-01-1997
		EP 0835313 A	15-04-1998
		JP 11510373 T	14-09-1999
		NO 976119 A	26-02-1998
		NZ 311120 A	28-10-1999
EP 0680765 A	08-11-1995	US 5770213 A	23-06-1998
		AU 704882 B	06-05-1999
		AU 1781495 A	16-11-1995
		CA 2148563 A	06-11-1995
		FI 952144 A	06-11-1995
		JP 8337598 A	24-12-1996
		NO 951750 A	06-11-1995
WO 9319090 A	30-09-1993	AU 3916893 A	21-10-1993
		BR 9306109 A	18-11-1997
		CA 2131837 A	17-09-1993
		EP 0632814 A	11-01-1995
		FI 944273 A	15-11-1994
		JP 2810235 B	15-10-1998
		JP 7506248 T	13-07-1995
		NO 943431 A	10-11-1994
		US 5549897 A	27-08-1996
		US 5603938 A	18-02-1997
		US 5876733 A	02-03-1999